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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/033,423	12/27/2001	Mika Ilvonen	460-010814-US(PAR)	9272

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EXAMINER	
MILORD, MARCEAU	

ART UNIT	PAPER NUMBER
2682	

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/033,423	Applicant(s) ILVONEN, MIKA	
	Examiner Marceau Milord	Art Unit 2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *29 June 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohtani (US Patent No 5384207) in view of Hansen (US Patent No 6370362 B1).

Regarding claim 1, Ohtani discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33); a back cover for closing said internal compartment and covering the unit when said unit is installed into said internal compartment (col. 2, lines 34-68); and electronic contacts, on a side of said internal compartment (col. 4, line 1- col. 5, line 59).

However, Ohtani does not specifically disclose the steps of establishing an electrical connection with said unit when said unit is placed into said compartment, characterized in that said back cover comprises a guiding means for pushing said unit against said electronic contacts while closing said back cover.

On the other hand, Hansen, from the same field of endeavor, discloses a communication unit that has a housing part provided with means for entering information, and a slide assembly. The housing part is provided with a set of tracks. The slide assembly includes a cover part and a set of sliding rails. Furthermore, Hansen shows in figures 8 and 9, a push button that extends through the wall of the back cover, and a bushing having a pin, which is formed integrally with the push button. The bush button is pivotally fixed to the guide profile by means of a pivot joint shaft passing through the bushing. The guide profile has a coil support member, which is provided along the side of the back cover 11 (figs. 10-12; col. 6, line 4- col. 7, line 24). The second connector can establish the contact (col. 5, lines 41-67). When the controller detects that the slide has been closed, the display changes to the second display, and pressing the left soft key 8 will cause the keys to be locked or enabled. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the technique of Hansen to the system of Ohtani in order to provide a good mechanical connection between the slide and the main body of the unit.

Regarding claim 2, Ohtani as modified discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33), comprising guiding means that is arranged for holding said unit against said electronic contacts while said back cover is closed for securing said electrical connection (col. 4, line 1- col. 5, line 59).

Regarding claim 3, Ohtani as modified discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-

33), comprising guiding means that is arranged to align said unit transversally with said electronic contacts while closing said back cover (col. 5, line 5- col. 6, line 20).

Regarding claim 4, Ohtani as modified discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33), comprising a protruding wedge means which are arranged to extend from a side of said back cover facing said compartment (col. 2, lines 34-68).

Regarding claim 5, Ohtani as modified discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33), comprising guiding means and said electronic contacts are dimensioned to press the unit between said guiding means and said electronic contacts with a force adequate for securing said electrical connection while said back cover is closed (col. 5, line 5- col. 6, line 20).

Regarding claim 6, Ohtani as modified discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33), characterized in that said unit is a battery pack for an electronic device such as a communication unit (col. 3, lines 27-61).

Regarding claim 7, Ohtani as modified discloses an electronic device (figs. 1-2) comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33), characterized in that said unit is an extension card, such as a memory card

Regarding claim 8, Ohtani discloses a back cover for an electronic device (figs. 1-2), said device comprising an internal compartment for retaining a detachable electronic unit (col. 2, lines 18-33); and electronic contacts on a side of said internal compartment, for establishing an electrical connection with said unit when said unit is placed into said compartment, (col. 2, lines

34-68); said back cover being arranged for closing said internal compartment and covering said unit when said unit is installed into said internal compartment (col. 4, line 1- col. 5, line 59).

However, Ohtani does not specifically disclose the step of guiding means for pushing said unit against said electronic contacts.

On the other hand, Hansen, from the same field of endeavor, discloses a communication unit that has a housing part provided with means for entering information, and a slide assembly. The housing part is provided with a set of tracks. The slide assembly includes a cover part and a set of sliding rails. Furthermore, Hansen shows in figures 8 and 9, a push button that extends through the wall of the back cover, and a bushing having a pin, which is formed integrally with the push button. The bush button is pivotally fixed to the guide profile by means of a pivot joint shaft passing through the bushing. The guide profile has a coil support member, which is provided along the side of the back cover 11 (figs. 10-12; col. 6, line 4- col. 7, line 24). The second connector can establish the contact (col. 5, lines 41-67). When the controller detects that the slide has been closed, the display changes to the second display, and pressing the left soft key 8 will cause the keys to be locked or enabled. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the technique of Hansen to the system of Ohtani in order to provide a good mechanical connection between the slide and the main body of the unit.

Regarding claim 9, Ohtani as modified discloses a back cover for an electronic device characterized in that said guiding means is arranged for holding said unit against said electronic contacts while said back: cover is closed for securing said electrical connection (col. 5, line 5- col. 6, line 20).

Regarding claim 10, Ohtani as modified discloses a back cover for an electronic device characterized in that said guiding means comprises a protruding wedge means which are arranged to extend from a side of said back cover facing said compartment (col. 5, line 5- col. 6, line 20).

Regarding claim 11, Ohtani discloses a method for retaining and locking a detachable electronic unit (figs. 1-2) in an internal compartment of an electronic device, said device comprising electronic contacts on a side of said internal compartment for establishing an electrical connection with said unit (col. 2, lines 18-33); when said unit is placed into said internal compartment; and a back cover for closing said internal compartment and covering said unit when said unit is installed into said internal compartment (col. 4, line 1- col. 5, line 59).

However, Ohtani does not specifically disclose the step of pushing said unit towards and against said electronic contacts by using a guiding means arranged on said back cover while closing said back cover.

On the other hand, Hansen, from the same field of endeavor, discloses a communication unit that has a housing part provided with means for entering information, and a slide assembly. The housing part is provided with a set of tracks. The slide assembly includes a cover part and a set of sliding rails. Furthermore, Hansen shows in figures 8 and 9, a push button that extends through the wall of the back cover, and a bushing having a pin, which is formed integrally with the push button. The bush button is pivotally fixed to the guide profile by means of a pivot joint shaft passing through the bushing. The guide profile has a coil support member, which is provided along the side of the back cover 11 (figs. 10-12; col. 6, line 4- col. 7, line 24). The second connector can establish the contact (col. 5, lines 41-67). When the controller detects that

the slide has been closed, the display changes to the second display, and pressing the left soft key 8 will cause the keys to be locked or enabled. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the technique of Hansen to the system of Ohtani in order to provide a good mechanical connection between the slide and the main body of the unit.

Regarding claim 12, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, comprising the step of holding said unit against said 12 electronic contacts with a force for securing said electrical connection by using said guiding means while said back cover is closed (col. 5, line 5- col. 6, line 20).

Regarding claim 13, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, comprises the step of sliding said loose unit towards said electronic contacts along the bottom of said compartment, and holding resiliently said unit between said guiding means and said electronic contacts while said back cover is closed (col. 5, line 5- col. 6, line 20).

Regarding claim 14, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, comprises the step of aligning said unit transversally with said electronic contacts while closing back cover.

Regarding claim 15, Ohtani discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, wherein said guiding means is arranged to align said unit transversally with said electronic contacts while closing said back cover (col. 5, line 5- col. 6, line 20).

Regarding claim 16, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device wherein said guiding means comprises a protruding wedge means which are arranged to extend from a side of said back cover facing said compartment (col. 2, lines 34-68).

Regarding claim 17, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, wherein said guiding means and, said electronic contacts are dimensioned to press the unit between said guiding means and said electronic contacts with a force adequate for securing said electrical connection while said back cover is closed (col. 5, line 5- col. 6, line 20).

Regarding claim 18, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, wherein said guiding means comprises a protruding wedge means which are arranged to extend from a side of said back cover facing said compartment (col. 2, lines 34-68).

Regarding claim 19, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, comprises the step of sliding said loose unit towards said electronic contacts along the bottom of said compartment, and holding resiliently said unit between said guiding means and said electronic contacts while said back cover is closed (col. 5, line 5- col. 6, line 20).

Regarding claim 20, Ohtani as modified discloses a method for retaining and locking a detachable electronic unit in an internal compartment of an electronic device, wherein the method further comprises the step of aligning said unit transversally with said electronic contacts while closing said back cover (col. 5, line 5- col. 6, line 20).

Response to Arguments

3. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marceau Milord whose telephone number is 703-306-3023. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian C. Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARCEAU MILORD

Marceau Milord
Examiner
Art Unit 2682

MARCEAU MILORD
PRIMARY EXAMINER